



Maximizing XOR

Problem Submissions Leaderboard Discussions Editorial

Change language : English

Given two integers: L and R ,

find the maximal values of $A \text{ xor } B$ given, $L \leq A \leq B \leq R$

Input Format

The input contains two lines, L is present in the first line.
 R in the second line.

Constraints

$$1 \leq L \leq R \leq 10^3$$

Output Format

The maximal value as mentioned in the problem statement.

Sample Input

```
1
10
```

Sample Output

```
15
```

Explanation

The maximum value can be obtained for $A = 5$ and $B = 10$,

$1010 \text{ xor } 0101 = 1111$ hence 15.

Suggest Edits



Authored by [zxqfd55](#)

Apr 17 2014

4111 hackers have submitted code

Share



Current Buffer (saved locally, editable)

PHP



```
4 <?php
5
6
7 function maxXor( $l, $r) {
8
9
10 }
11
12 $__fp = fopen("php://stdin", "r");
13
14 fscanf($__fp, "%d", $_l);
15
```

```
--  
16  
17 fscanf(__fp, "%d", &r);  
18  
19 res = maxXor(l, r);  
20 echo res;  
21  
22 ?>  
23
```

Line: 4 Col



Upload Code as File



Use a custom test case

Run Code

Submit Co

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.

[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Careers](#) | [Privacy Policy](#) | [Request a Feature](#)